BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements & asphalting to main and cross roads at Soap Factory Layout in Bagalagunte in Ward No:14

DETAILED ESTIMATE

Ward No. 14					Est. Cost		5000000.00	
Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.142..,I.No.19.1 of KPWD S.R 2016-17)							
	3rd Cross Road							
		2	193.00	0.60	0.60	138.96		
	2nd Cross Road							
		2	195.00	0.60	0.60	140.40		
	1st Cross Road							
		2	195.00	0.60	0.60	140.40		
	Bad Streches							
	3rd Cross Road							
		1	30.00	4.00	0.25	30.00		
		1	25.00	4.50	0.25	28.13		
		1	35.00	4.10	0.25	35.88		
		1	31.00	4.00	0.25	31.00		
	2nd Cross Road							
		1	25.00	5.00	0.25	31.25		
		1	40.00	5.20	0.25	52.00		
		1	36.00	5.50	0.25	49.50		
		1	41.00	5.40	0.25	55.35		
	1st Cross Road							
		1	45.00	5.50	0.25	61.88		
		1	51.00	5.00	0.25	63.75		
		1	38.00	5.00	0.25	47.50		
						905.99	**86.92**	**78748.22**
							Per Cum	

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	CSR of 2016-17							
	Basic Rate		82.00					
	Add A.W. 6%		4.92					
	TOTAL		**86.92**					
2	KSRRB 4-1.7: Providing and laying in position plain cement concrete cum of 1:3:6 with OPC cement @220 kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation , plinth and cills , including cost of all materials, labour, HOm of machinery, curing complete as per specifications. Specification No.KBS 4.1,4.2 (Page No.13..,I.No.4.7 of KPWD S.R 2016-17)							
	For Solid Blocks Flaging Courase							
	3rd Cross Road							
		2	193.00	0.15	0.10	5.79		
	For SSM Flaging Courase							
	3rd Cross Road							
		2	193.00	0.45	0.10	17.37		
						23.16	**5598.92**	**129671.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		5282.00					
	Add A.W. 6%		316.92					
	TOTAL		**5598.92**					
3	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqmm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.(Page No 25., I.No.5.27.1 of KPWD S.R 2016-17)							
	For Solid Blocks Flaging Courase							
	3rd Cross Road							
		2	193.00		0.20	77.20		
						77.20	**993.22**	**76677.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		937.00					
	Add A.W. 6%		56.22					
	TOTAL		**993.22**					

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labours, curing complete as per specifications. (Page NO 23., I.No.5.6 of KPWD S.R 2016-17)							
	For SSM Flaging Courase							
	3rd Cross Road							
		2	193.00	0.45	0.20	34.74		
						34.74	**4438.22**	**154184.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	4187.00						
	Add A.W. 6%	251.22						
	TOTAL	**4438.22**						
5	KSRB 4-1.6 ; Providing and laying in position plain cement concrete cumof mix 1:2:4 with cement @ 240kgs, with 20mm and down size gradedgranite metal coarse aggregates @ 0.69 cum and fine aggregtes @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2(Page NO 12., I.No.4.6 of KPWD S.R 2016-17)							
	For Solid Blocks Flaging Courase							
	2nd Cross Road							
		2	195.00	0.15	0.075	4.39		
	3rd Cross Road							
		2	193.00	0.15	0.075	4.34		
	For SSM Flaging Courase							
	2nd Cross Road							
		2	195.00	0.45	0.075	13.16		
	3rd Cross Road							
		2	193.00	0.45	0.075	13.03		
						34.92	**5767.46**	**201400.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate	5441.00						
	Add A.W. 6%	326.46						

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	TOTAL		5767.46					
6	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate							
	3rd Cross Road							
		2	30.00	0.90		54.00		
	3rd Cross Road							
		2	193.00	0.90		347.40		
						401.40	**1834.00**	**736168.00**
							Per Cum	
7	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406(Page No 158., I.No.20.18 of KPWD S.R 2016-17).							
	Bad Streches							
	3rd Cross Road							
		1	30.00	4.00	0.25	30.00		
		1	25.00	4.50	0.25	28.13		
		1	35.00	4.10	0.25	35.88		
		1	31.00	4.00	0.25	31.00		
	2nd Cross Road							
		1	25.00	5.00	0.25	31.25		
		1	40.00	5.20	0.25	52.00		
		1	36.00	5.50	0.25	49.50		
		1	41.00	5.40	0.25	55.35		
	1st Cross Road							
		1	45.00	5.50	0.25	61.88		
		1	51.00	5.00	0.25	63.75		
		1	38.00	5.00	0.25	47.50		
						486.23	**1768.08**	**859685.00**
							Per Cum	
	CSR of 2016-17							

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Basic Rate		1668.00					
	Add A.W. 6%		100.08					
	TOTAL		**1768.08**					
8	KSRRB 500-2 : Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to rceive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161., I.No.21.2 of KPWD S.R 2016-2017)							
	3rd Cross Road							
		1	193.00	4.80		926.40		
	2nd Cross Road							
		1	195.00	5.20		1014.00		
	1st Cross Road							
		1	195.00	5.40		1053.00		
						2993.40	**3.18**	**9519.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate		3.00					
	Add A.W. 6%		0.18					
	TOTAL		**3.18**					
9	KSRRB 500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.161, Item No. 21.7 of KPWD S.R.2016-2017)							
	3rd Cross Road							
		1	193.00	4.80		926.40		
	2nd Cross Road							
		1	195.00	5.20		1014.00		
	1st Cross Road							
		1	195.00	5.40		1053.00		
						2993.40	**11.66**	**34903.00**
							PerSqm	
	CSR of 2016-17							
	Basic Rate		11.00					

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	Add A.W. 6%		0.66					
	TOTAL		11.66					
10	KSRRB M500-11 : Providing and laying bituminous Macamdam on prepared surface with crushed coarse aggregates as design mix for base/binding course including loading of agregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, roo lling by power roller to achieve the desired density but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications using TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen(Page No.162, Item No. 21.11.5 of KPWD S.R 2016-17)							
	3rd Cross Road							
		1	193.00	4.80	0.05	46.32		
	2nd Cross Road							
		1	195.00	5.20	0.05	50.70		
	1st Cross Road							
		1	195.00	5.40	0.05	52.65		
						149.67	5546.98	830216.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate		5233.00					
	Add A.W. 6%		313.98					
	TOTAL		5546.98					
11	KSRRB M500-19 : Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications.MORTH specification no.509 using 40-60 TPH capacity HMP with Sensor paver Gr- II (30mm to 45mm) with 6% VG-30 bitumen (Page No.165, Item No. 21.23.12 of KPWD S.R 2016-17)							
	3rd Cross Road							
		1	193.00	4.80	0.04	37.06		

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
	2nd Cross Road							
		1	195.00	5.20	0.04	40.56		
	1st Cross Road							
		1	195.00	5.40	0.04	42.12		
						119.74	13649.62	1634351.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate	12877.00						
	Add A.W. 6%	772.62						
	TOTAL	13649.62						
12	Add Plastic to Bituminous Concrete 8% of Bitumen							
	Qty Vide Item No: 11					119.74	Cum	
	8 % of the (119.74*8%) = 9.578*141 kg					1350.50		
						1350.50	27.00	36463.45
							Per Kg	
13	KSRRB M800-13 Road Markig with Hot Applied Thermoplastic compound with Reflectirising glass beads on Bituminous suface:- Providing and laying of Hot applied thermoplastic compund 2.5mm thick including reflectorising glass beads at 250gm/sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 the finished surface to be level uniform and pre firm streads and holes complete as per specficaions (Page No.185,I.No.24.15 of KPWD S.R. 2016-2017)							
	3rd Cross Road							
		2	193.00	0.10		38.60		
	2nd Cross Road							
		2	195.00	0.10		39.00		
	1st Cross Road							
		2	195.00	0.10		39.00		
						116.60	542.72	63281.00
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	512.00						
	Add A.W. 6%	30.72						
	TOTAL	542.72						

Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
14	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)							
	Qty.vide item No.1					905.99		
						905.99	106.00	96034.41
							Per Cum	
	for 10 Kms 2.5x 1.28x10=32		32.00					
	Loading & Unloading charges		68.00					
	CSR of 2016-17		100.00					
	Basic Rate		100.00					
	Add A.W. 6%		6.00					
	TOTAL		106.00					
						SubTotal		4941301.07
15	Q.C.1% Charges							50000.00
16	Miscelleneous & other unforseen charges					LS		869893
						GRAND TOTAL Rs.		5000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.14

Asst.Executive Engineer
Bagalagunte Sub Division
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P.

ನಂ. BE/PP/AS/647/17-18 ದಿನಾಂಕ : 23-12-17
ರೂ. Rs. 50.00 lakhs fifty lakhs only
ಮಾಡಲು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿ ವಲಯ

ನಂ. CE/TS/431/17-18 ದಿನಾಂಕ : 30-12-17
ರೂ. 50.00 Rs. fifty lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ; ಬೆಂಗಳೂರು